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October 6, 2005

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Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop Amendment

Re: U.S. Utility Patent Application
Application No. 10/644,084; Filed: August 20, 2003
For: **ADIP Protein and Use Thereof**
Inventors: TAKAI *et al.*
Our Ref: 2144.0100000/RWE/ALS

Sir:

Transmitted herewith for appropriate action are the following documents:

1. First Supplemental Information Disclosure Statement Filing Under 37 C.F.R. § 1.97(b);
2. Seven (7) pages of Form PTO/SB/08B citing sixty-four (64) documents;
3. Copies of sixty-four (64) cited documents; and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
October 6, 2005
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read 'A. Schwartz', is written over the printed name.

Aaron L. Schwartz
Attorney for Applicants
Registration No. 48,181

ALS/law
Enclosures

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Takai *et al.*

Appl. No.: 10/644,084

Filed: August 20, 2003

For: **ADIP Protein and Use Thereof**

Confirmation No.: 4948

Art Unit: 1646

Examiner: *To Be Assigned*

Atty. Docket: 2144.0100000/RWE/ALS

**First Supplemental Information Disclosure Statement
Filing Under 37 C.F.R. § 1.97(b)**

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO/SB/08B are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this First Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Information Disclosure Statement filed on December 12, 2003, in connection with the captioned application. Copies of documents **AR2-AR23** are submitted herewith.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached Form PTO/SB/08B based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

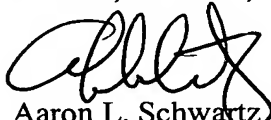
This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO/SB/08B, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

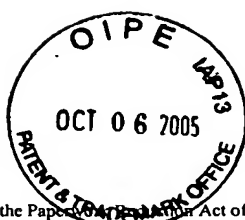


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PTO/SB/08B (07-05)

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/644,084
FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Filing Date	August 20, 2003
				First Named Inventor	Yoshimi Takai
				Art Unit	1646
				Examiner Name	To Be Assigned
Sheet	1	of	7	Attorney Docket Number	2144.0100000/RWE/ALS

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	T ²
	AR2	Aoki, J., <i>et al.</i> , "Mouse Homolog of Poliovirus Receptor-Related Gene 2 Product, mPRR2, Mediates Homophilic Cell Aggregation," <i>Exp. Cell. Res.</i> 235:374-384, Academic Press (1997)	
	AS2	Aoki, J., <i>et al.</i> , "Amino Acid Residues on Human Poliovirus Receptor Involved in Interaction with Poliovirus," <i>J. Biol. Chem.</i> 269:8431-8438, The American Society for Biochemistry and Molecular Biology, Inc. (1994)	
	AT2	Bazzoni, G., <i>et al.</i> , "Interaction of Junctional Adhesion Molecule with the Tight Junction Components ZO-1, Cingulin, and Occludin," <i>J. Biol. Chem.</i> 275:20520-20526, The American Society for Biochemistry and Molecular Biology, Inc. (2000)	
	AR3	Böhl, F., <i>et al.</i> , "She2p, a novel RNA-binding protein tethers ASH1 mRNA to the Myo4p myosin via She3p," <i>EMBO J.</i> 19:5514-5524, European Molecular Biology Organization (2000)	
	AS3	Cocchi, F., <i>et al.</i> , "The V domain of herpesvirus Ig-like receptor (HlgR) contains a major functional region in herpes simplex virus-1 entry into cells and interacts physically with the viral glycoprotein D," <i>Proc. Natl. Acad. Sci. USA</i> 95:15700-15705, The National Academy of Sciences (1998)	
	AT3	Cocchi, F., <i>et al.</i> , "Cell-to-Cell Spread of Wild-Type Herpes Simplex Virus Type 1, but Not of Syncytial Strains, Is Mediated by the Immunoglobulin-Like Receptors That Mediate Virion entry, Nectin1 (PRR1/HveC/HlgR) and Nectin2 (PRR2/HveB)," <i>J. Virol.</i> 74:3909-3917, American Society for Microbiology (2000)	
	AR4	Eberlé, F., <i>et al.</i> , "The human PRR2 gene, related to the human poliovirus receptor gene (PVR), is the true homolog of the murine MPH gene," <i>Gene</i> 159:267-272, Elsevier Science B.V. (1995)	
	AS4	Ebnet, K., <i>et al.</i> , "Junctional Adhesion Molecule Interacts with the PDZ Domain-containing Proteins AF-6 and ZO-1," <i>J. Biol. Chem.</i> 275:27979-27988, The American Society for Biochemistry and Molecular Biology, Inc. (2000)	
	AT4	Farquhar, M.G. and Palade, G.E., "Junctional Complexes in Various Epithelia," <i>J. Cell. Biol.</i> 17:375-412, The Rockefeller University Press (1963)	
	AR5	Fukuhara, A., <i>et al.</i> , "Involvement of nectin in the localization of junctional adhesion molecule at tight junctions," <i>Oncogene</i> 21:7642-7655, Nature Publishing Group (October 2002)	

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Substitute for form 1449/PTO				Complete if Known	
FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/644,084
				Filing Date	August 20, 2003
				First Named Inventor	Yoshimi Takai
				Art Unit	1646
				Examiner Name	To Be Assigned
Sheet	2	of	7	Attorney Docket Number	2144.0100000/RWE/ALS

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	AS5	Fukuhara, A., <i>et al.</i> , "Role of nectin in organization of tight junctions in epithelial cells," <i>Genes Cells</i> 7:1059-1072, Blackwell Science Limited (October 2002)	
	AT5	Furuse, M., <i>et al.</i> , "A Single Gene Product, Claudin-1 or -2, Reconstitutes Tight Junction Strands and Recruits Occludin in Fibroblasts," <i>J. Cell. Biol.</i> 143:391-401, The Rockefeller University Press (1998)	
	AR6	Furuse, M., <i>et al.</i> , "Claudin-1 and -2: Novel Integral Membrane Proteins Localizing at Tight Junctions with No Sequence Similarity to Occludin," <i>J. Cell Biol.</i> 141:1539-1550, The Rockefeller University Press (1998)	
	AS6	Furuse, M., <i>et al.</i> , "Direct Association of Occludin with ZO-1 and Its Possible Involvement in the Localization of Occludin at Tight Junctions," <i>J. Cell. Biol.</i> 127:1617-1626, The Rockefeller University Press (1994)	
	AT6	Geraghty, R.J., <i>et al.</i> , "Entry of Alphaherpesviruses Mediated by Poliovirus Receptor-Related Protein 1 and Poliovirus Receptor," <i>Science</i> 280:1618-1620, American Association for the Advancement of Science (1998)	
	AR7	Gumbiner, B.M., "Cell Adhesion: The Molecular Basis of Tissue Architecture and Morphogenesis," <i>Cell</i> 84:345-357, Cell Press (1996)	
	AS7	Haskins, J., <i>et al.</i> , "ZO-3, a Novel Member of the MAGUK Protein Family Found at the Tight Junction, Interacts with ZO-1 and Occludin," <i>J. Cell Biol.</i> 141:199-208, The Rockefeller University Press (1998)	
	AT7	Ikeda, W., <i>et al.</i> , "Afadin: A Key Molecule Essential for Structural Organization of Cell-Cell Junctions of Polarized Epithelia during Embryogenesis," <i>J. Cell. Biol.</i> 146:1117-1131, The Rockefeller University Press (1999)	
	AR8	Imamura, Y., <i>et al.</i> , "Functional Domains of α -Catenin Required for the Strong State of Cadherin-based Cell Adhesion," <i>J. Cell Biol.</i> 144:1311-1322, The Rockefeller University Press (1999)	
	AS8	Itoh, M., <i>et al.</i> , "The 220-kD Protein Colocalizing with Cadherins in Non-Epithelial Cells Is Identical to ZO-1, a Tight Junction-associated Protein in epithelial Cells: cDNA Cloning and Immunoelectron Microscopy," <i>J. Cell. Biol.</i> 121:491-502, The Rockefeller University Press (1993)	

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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/644,084
				Filing Date	August 20, 2003
				First Named Inventor	Yoshimi Takai
				Art Unit	1646
				Examiner Name	To Be Assigned
Sheet	3	of	7	Attorney Docket Number	2144.0100000/RWE/ALS

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	AT8	Itoh, M., <i>et al.</i> , "Involvement of ZO-1 in Cadherin-based Cell Adhesion through Its Direct Binding to a Catenin and Actin Filaments," <i>J. Cell Biol.</i> 138:181-192, The Rockefeller University Press (1997)	
	AR9	Itoh, M., <i>et al.</i> , "Characterization of ZO-2 as a MAGUK Family Member Associated with Tight as well as Adherens Junctions with a Binding Affinity to Occludin and α Catenin," <i>J. Biol. Chem.</i> 274:5981-5986, The American Society for Biochemistry and Molecular Biology, Inc. (1999)	
	AS9	Itoh, M., <i>et al.</i> , "Direct Binding of Three Tight Junction-associated MAGUKs, ZO-1, ZO-2, and ZO-3, with the COOH Termini of Claudins," <i>J. Cell. Biol.</i> 147:1351-1363, The Rockefeller University Press (1999)	
	AT9	Itoh, M., <i>et al.</i> , "Junctional adhesion molecule (JAM) binds to PAR-3: a possible mechanism for the recruitment of PAR-3 tight junctions," <i>J. Cell Biol.</i> 154:491-497, The Rockefeller University Press (August 2001)	
	AR10	Knudsen, K.A., <i>et al.</i> , "Interaction of α -Actinin with the Cadherin/Catenin Cell-Cell Adhesion Complex via α -Catenin," <i>J. Cell Biol.</i> 130:67-77, The Rockefeller University Press (1995)	
	AS10	Long, R.M., <i>et al.</i> , "She2p is a novel RNA-binding protein that recruits the Myo4p-She3p complex to <i>ASH1</i> mRNA," <i>EMBO J.</i> 19:6592-6601, European Molecular Biology Organization (2000)	
	AT10	Lopez, M., <i>et al.</i> , "The Human Poliovirus Receptor Related 2 Protein Is a New Hematopoietic/Endothelial Homophilic Adhesion Molecule," <i>Blood</i> 92:4602-4611, American Society of Hematology (1998)	
	AR11	Lopez, M., <i>et al.</i> , "Complementary DNA characterization and chromosomal localization of a human gene related to the poliovirus receptor-encoding gene," <i>Gene</i> 155:261-265, Elsevier Science B.V. (1995)	
	AS11	Lopez, M., <i>et al.</i> , "Nectin2 α (PRR2 α or HveB) and Nectin2 δ Are Low-Efficiency Mediators for Entry of Herpes Simplex Virus Mutants Carrying the Leu25Pro Substitution in Glycoprotein D," <i>J. Virol.</i> 74:1267-1274, American Society for Microbiology (2000)	
	AT11	Mandai, K., <i>et al.</i> , "Afadin: A Novel Actin Filament-binding Protein with one PDZ Domain Localized at Cadherin-based Cell-to-Cell Adherens Junction," <i>J. Cell Biol.</i> 139:517-528, The Rockefeller University Press (1997)	

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Sheet	4	of	7	Attorney Docket Number	2144.0100000/RWE/ALS

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	AR12	Martin-Padura, I., <i>et al.</i> , "Junctional Adhesion Molecule, a Novel Member of the Immunoglobulin Superfamily That Distributes at Intercellular Junctions and Modulates Monocyte Transmigration," <i>J. Cell Biol.</i> 142:117-127, The Rockefeller University Press (1998)	
	AS12	Miyahara, M., <i>et al.</i> , "Interaction of Nectin with Afadin Is Necessary for Its Clustering at Cell-Cell Contact Sites but Not for Its <i>cis</i> Dimerization or <i>trans</i> Interaction," <i>J. Biol. Chem.</i> 275:613-618, The American Society for Biochemistry and Molecular Biology, Inc. (2000)	
	AT12	Mizoguchi, A., <i>et al.</i> , "Nectin: an adhesion molecule involved in formation of synapses," <i>J. Cell. Biol.</i> 156:555-565, The Rockefeller University Press (February 2002)	
	AR13	Morrison, M.E. and Racaniello, V.R., "Molecular Cloning and Expression of a Murine Homolog of the Human Poliovirus Receptor Gene," <i>J. Virol.</i> 66:2807-2813, American Society for Microbiology (1992)	
	AS13	Nagafuchi, A., "Molecular architecture of adherens junctions," <i>Curr. Opin. Cell Biol.</i> 13:600-603, Elsevier Science Ltd. (December 2001)	
	AT13	Nagafuchi, A., <i>et al.</i> , "The 102 kd Cadherin-Associated Protein: Similarity to Vinculin and Posttranscriptional Regulation of Expression," <i>Cell</i> 65:849-857, Cell Press (1991)	
	AR14	Ozaki-Kuroda, K., <i>et al.</i> , "Nectin Couples Cell-Cell Adhesion and the Actin Scaffold at Heterotypic Testicular Junctions," <i>Curr. Biol.</i> 12:1145-1150, Elsevier Science Ltd. (July 2002)	
	AS14	Ozawa, M., <i>et al.</i> , "The cytoplasmic domain of the cell adhesion molecule uvomorulin associates with three independent proteins structurally related in different species," <i>EMBO J.</i> 8:1711-1717, IRL Press (1989)	
	AT14	Ponting, C.P., "AF-6/cno: neither a kinesin nor a myosin, but a bit of both," <i>Trends Biochem. Sci.</i> 20:265-266, Elsevier Science Ltd. (1995)	
	AR15	Prasad, R., <i>et al.</i> , "Cloning of the ALL-1 Fusion Partner, the AF-6 Gene, Involved in Acute Myeloid Leukemias with the t(6;11) Chromosome Translocation," <i>Cancer Res.</i> 53:5624-5628, The American Association for Cancer Research (1993)	

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	AS15	Provost, E. and Rimm, D.L., "Controversies at the cytoplasmic face of the cadherin-based adhesion complex," <i>Curr. Opin. Cell Biol.</i> 11:567-572, Elsevier Science Ltd. (1999)	
	AT15	Reymond, N., <i>et al.</i> , "Nectin4/PRR4, a New Afadin-associated Member of the Nectin Family That Trans-interacts with Nectin1/PRR1 through V Domain Interaction," <i>J. Biol. Chem.</i> 276:43205-43215, The American Society for Biochemistry and Molecular Biology, Inc. (November 2001)	
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Substitute for form 1449/PTO FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/644,084
				Filing Date	August 20, 2003
				First Named Inventor	Yoshimi Takai
				Art Unit	1646
Examiner Name	To Be Assigned				
Sheet	6	of	7	Attorney Docket Number	2144.0100000/RWE/ALS

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	AT18	Takeichi, M., "Morphogenetic roles of classic cadherins," <i>Curr. Opin. Cell Biol.</i> 7:619-627, Current Biology Ltd. (1995)	
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	AR22	Willott, E., <i>et al.</i> , "The tight junction protein ZO-1 is homologous to the <i>Drosophila</i> discs-large tumor suppressor protein of septate junctions," <i>Proc. Natl. Acad. Sci. USA</i> 90:7834-7838, The National Academy of Sciences (1993)	
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	AT22	Yagi, T. and Takeichi, M., "Cadherin superfamily genes: functions, genomic organization, and neurologic diversity," <i>Genes Dev.</i> 14:1169-1180, Cold Spring Harbor Laboratory Press (2000)	
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